

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIRECTOR GENERAL  
WEST BENGAL FIRE & EMERGENCY SERVICES  
13-D Mirza Ghalib Street, Kolkata- 700 016**

Memo No : IND/WB/FES/20192020/61910

DATE: 09/10/2019

**From :**

**The Director  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services.**

**To :**

**Realmark Realty Private Limited  
484, Ghoshal Para, Ward No.-23, Mouza-Manikpore, P.S.-Sonarpur Under Rajpur  
Sonarpur Municipality, Dist.-24 Pgs(S).  
Baruipur F.S., sonarpur,  
South 24 Parganas - 700150 .**

**Sub :Fire Safety Recommendation for proposed construction comprising of 6nos  
Block of G+IV storied under group Residential Building at premises no. 484, Ghoshal  
Para, Ward No.-23, Mouza-Manikpore, P.S.-Sonarpur Under Rajpur Sonarpur  
Municipality, Dist.-24 Pgs(S).**

This is in reference to your Application No. IND/WB/FES/20192020/61910,dated 09/10/2019, regarding the Fire Safety Measure for proposed construction comprising of 6nos Block of G+IV storied under group Residential Building at premises no. 484, Ghoshal Para, Ward No.-23, Mouza-Manikpore, P.S.-Sonarpur Under Rajpur Sonarpur Municipality, Dist.-24 Pgs(S)..

The plan submitted by you was scrutinized and marked as found necessary from Fire Safety point of view. In returning one set of plan with recommendation, this is issuing Fire Safety Recommendation in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

1. A. CONSTRUCTION:

1. The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
2. The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
3. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
4. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity of service ducts/shafts of 2hr. Fire rating.

**B. OPEN SPACE & APPROACH:**

1. The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and manoeuvrability of Fire Appliances with turning facility.
2. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
3. The width and height of the access gates into the premises shall not be less than 4.5 and 5 M respecting abutting the road.

**C. STAIRCASE:**

1. The staircase of the building shall have permanent vents at the top and open able sashes at each floor level in the external wall of the building.
2. The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall be conforming the relevant building rules and well as rules of the cinematograph act. With up to date amendments.
3. All the staircases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

**D. FIRE FIGHTING WATER:**

Under ground water reservoir having capacity of 100,000 ltrs for entire project and Overhead water Reservoir having water capacity of 10,000 ltrs in each block exclusively for Fire Fighting purpose with replenishing arrangements @1000 ltrs/min. preferably from two

different sources of water shall be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water. The water reservoirs shall be kept full at all time.

**E. WATER LAYOUT SYSTEM:**

1. The building shall be provided with Down comer along with hose reel connected to terrace tank through the terrace pump and provide 100mm. internal diameter Pipe Line with provision of landing valves at the Staircase landings / half landings at the rate of one such riser for 1000 Sq m of floor area. The system shall be so designed that shall be kept charged with Water all the time under pressure and shall not be less than 3.5 kgs./ Sq. cm. All other requirements shall conforming I.S. 3844 – 1989.
2. Proper replenishment arrangement shall have to be made to keep the O.H.W.R. full at all time.
3. Provision of adequate numbers Yard Hydrant with fire service inlet shall be installed surrounding the building in accordance with relevant I.S. specifications.

**F. FIRE PUMP:**

1. Provision of 900 LPM terrace pump shall have to be made to supply water at the rate designed pressure and discharge into the Water based system, which shall be installed in each building. One such pump shall always be kept on stand-by mode.
2. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably of positive type with down comer with suitable terrace pump with overhead tank.

**G. Sprinkler Installation:**

The automatic Sprinkler installation shall be provided at Community Halls in Block-2 as per I.S. 9972 and alarm gang to be incorporated along with the sprinkler system. Sprinkler test line shall have to be provided.

**H. Electrical Installation & Distribution:**

1. The electrical installation including Switch Gears, Main & Meters etc. and the distribution system of the premises shall be made satisfying the code of practice for Fire safety in general building as laid down in I.S. specification 1946 – 1982.

2. Electrical distribution system shall conform all the requirements as laid in I. S. 1646-1982.
3. The electrical installation shall be adequately protected with automatic CO2/D.C.P.
4. All electrical installation viz. Switch Gear L. T., H. T. rooms shall be protected with both auto detection and suppression systems as per suitability.
5. Alternative Power Supply :  
Arrangements shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Pump for deep Tube-well, Fire Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building incase of normal power failure.

I. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with at least one number of break glass type call boxes fitted with Hooters at each floor at each building connecting with public address panel board shall be made in Control Room. The Control Room shall be located at the entrance of Ground Floor of the building, other requirements of the system shall be made conforming I.S. 2189 – 1988.
2. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.
3. Smoke detector shall have to be installed in Community Hall in Block-2 and shops area in Block-1A as per I.S. specification.
4. Public Address System :-  
Public address system linked between all floors and Control Room shall have to be established.

J. FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting arrangement in the style of placing suitable type of portable Fire Extinguishers, Fire buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-92.

K. General Recommendations:

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G.

and other highly combustible articles.

2. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
3. Floor numbers and directional sign of escape route shall be displayed prominently.
4. The occupancy and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate in the event of Fire and Testing.
5. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.
6. A crew of trained Fireman shall be maintained round the clock for safety of the building.
7. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
8. The certificate has to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements and installation of the building.

On compliance of all the above Fire and Life safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation, Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

N.B. : Any deviation and changes the nature of use of the building in respect of the approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Signature Not Verified  
Digitally signed by TARUN  
KUMAR SINHA  
Date: 2019.10.09 13:33:30 IST

**Director**  
**West Bengal Fire & Emergency Services**